Applicant: French, et al. Attorney Docket: 14509-0123US1 / P080480ATXLUS

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Please amend the claims as follows (this listing of claims replaces all prior versions):

1. (Previously Presented) A mask, comprising:

a mask substrate;

a half-tone layer of half-tone mask material arranged in a pattern across the mask

substrate; and

a light-blocking layer of light blocking material arranged in a pattern across the half-tone

layer;

wherein the half-tone mask material is silicon-rich silicon nitride SiN<sub>x</sub>:H with x in the

range 0 to 1, and wherein a thickness of the half-tone layer and x are selected to provide a

transmittance in the range of 20% to 80%.

2. (Previously Presented) The mask of claim 1 wherein the silicon-rich silicon nitride

layer has a value of x in the range 0.2 to 0.6 and an optical band gap of from 2.1eV to 2.5eV.

3. (Previously Presented) The mask of claim 1 wherein the silicon-rich silicon nitride

layer has a thickness of from 40nm to 100nm.

4. (Withdrawn) Use of the mask of claim 1 including exposing a layer of photoresist by

passing ultra-violet light through the mask onto the layer of photoresist to define fully removed

regions in which the photoresist is fully removed, thick regions having a first thickness and thin

regions having a thickness less than the first thickness in the regions exposed through the half-

tone regions.

5-8. (Cancelled)

9. (Previously Presented) The mask of claim 1 wherein the silicon-rich silicon nitride

layer has a value of x in the range 0.2 to 0.5 and an optical band gap of from 2.1eV to 2.35eV.

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10. (Previously Presented) The mask of claim 1 wherein the silicon-rich silicon nitride

layer has a thickness of 60nm and an optical band gap of 2.3eV.

11. (Previously Presented) The mask of claim 1wherein the thickness of the half-tone

layer and x are selected to provided a transmittance in the range of 40% to 80%.

12. (Previously Presented) The mask as defined in claim 1 wherein variation of the

thickness of the half-tone layer is less than or equal to 20%.

13. (Previously Presented) The mask as defined in claim 1 in which the thickness of the

half-tone layer and x are selected to provide a transmittance in the range of 20% to 80% for light

having a wavelength in the range of 365 nm to 436 nm.

14. (Previously Presented) The mask as defined in claim 1, wherein the thickness of the

half-tone layer and x are selected to provide a transmittance in the range of 20% to 80% for i-line

light having a wavelength of 365 nm, h-line light having a wavelength of 405 nm, and g-line

light having a wavelength of 436 nm.